



AE Order Number Banner

Report Description

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App Number: pGRL1132042453

1RP - 2761

KEY ENERGY SERVICES, LLC

Bronco Oilfield Service

Key Brine Water Station Closure Report

**Section 15 of Township 21 South, Range 37 East,
Lea County, New Mexico**

December 15, 2011



Prepared By:

***Safety & Environmental Solutions, Inc.
703 East Clinton
Hobbs, New Mexico 88240
(575) 397-0510***

*Approved
Steve Sisk
ENV. ENGINEER
NMOCB-HOBBS
12/19/11*

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I. Company Contacts

Representative	Company	Telephone	E-mail
Sergio Contreras	SESI	575-397-0510	scontreras@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Bronco Oilfield Service to perform cleanup services at the Key Brine Station. The facility is located in Section 15 of Township 21 South, Range 37 East, of Lea County New Mexico.

III. Surface and Ground Water

According the database provided by the New Mexico Office of State Engineer's online database, the average depth of water in this area is 70 feet which is located approximately 1,431 ft. northwest of the location.

IV. Soils

The surface soils in the area are predominantly consists of well drained soils. Typically the surface layer is gravelly fine sandy loam or loamy fine sand. The subsoil is pale brown fine sandy loam, and the substratum is white, platy, indurate caliche. These soils are formed in wind-worked, calcareous sediments over fractured caliche. Slopes are 0 to 3 percent. The vegetation consists of short and mid grasses and shrubs. These soils are used as range and wildlife habitat. Small areas are used for irrigated cropland.

V. Work Performed

On June 7, 2011, SESI was onsite with Mr. Ramon Ponce, operator for Bronco Oilfield Service. A total of two (2) test trenches were installed within release area in order to determine vertical extent of contamination. Test trench #1 was installed to a depth of five (5) ft. and at test trench #2 to of depth of three (3) ft. below ground surface (bgs). SESI left a message via voicemail to Mr. Geoff Leking, New Mexico Oil Conservation Division (NMOCD) representative, stating that due to the hard caliche layer, the equipment used was unable to break through 3'bgs of test trench #2.

Samples were retrieved in 1-5 ft intervals from test trench #1 and 1-3 ft intervals from test trench #2. All samples were properly preserved and transported under Chain of Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The samples were analyzed for Chlorides (EPA Method 4500-Cl⁻ B).

The results of the analysis are as follows:

Lab ID	Sample ID	Cl ⁻ (mg/kg)
Analysis Date:		06/08/11
H101174-01	TT#1 1' bgs	5,680
H101174-02	TT#1 3' bgs	1,180
H101174-03	TT#1 5' bgs	256
H101174-04	TT#2 1' bgs	3,280
H101174-05	TT#2 3' bgs	1,170

On June 27-30, 2011, SESI was onsite with Bryan's Oilfield Service to begin excavating contaminated area to a depth of three (3) feet bgs. A fence was constructed to barricade the contaminated area.

On July 22-29, 2011, SESI was onsite with Bryan's Oil field Service. A total of 1,242 yards of contaminated soil were transported to Sundance Services for disposal.

On August 1, 2011, SESI was onsite to obtain soil samples from bottom floor of excavated area. The entire area was excavated to a depth of 3' bgs. A total of ten (10) grab samples were retrieved from the bottom of the excavation. All samples were properly preserved and transported under Chain of Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The samples were analyzed for Chlorides (EPA Method 4500-Cl⁻ B).

The results of the analysis are as follows:

Lab ID	Sample ID	Cl ⁻ (mg/kg)
Analysis Date:		08/01/11
H101589-01	SP-1 3' bgs	240
H101589-02	SP-2 3' bgs	96.0
H101589-03	SP-3 3' bgs	480
H101589-04	SP-4 3' bgs	288
H101589-05	SP-5 3' bgs	10,000
H101589-06	SP-6 3' bgs	432
H101589-07	SP-7 3' bgs	672
H101589-08	SP-8 3' bgs	1650
H101589-09	SP-9 3' bgs	6080
H101589-10	SP-10 3' bgs	464

As per New Mexico Oil Conservation Division (NMOCD) request, Mr. Leking, (NMOCD representative) advised to continue excavating SP-5 area until chloride concentration is below 250 mg/kg. On August 23, 2011, a test trench was installed to a depth of 10' bgs due to the backhoe refusal not able to break through hard caliche layer; the results concluded 464 mg/kg. On September 23, 2011, a trackhoe was utilized to break the hard caliche layer in the existing test trench. A sample was obtained at a depth of 15' bgs; the results concluded 304 mg/kg, slightly above the NMOCD's recommendation. On November 11, 2011, a trackhoe was onsite to excavate additional 2' bgs. The sample was properly preserved and transported under Chain of Custody to Cardinal Laboratories of Hobbs, New Mexico for analysis and analyzed for Chlorides (EPA Method 4500-Cl⁻ B). The result of the analysis was 224 mg/kg; therefore vertical extent was determined at a depth of 17' bgs.

On November 28, 2011 through December 2, 2011 the floor of the excavation was padded and domed with one (1) foot of clean topsoil. Akome, Inc. was onsite to install the 20-mil reinforced geo-membrane liner. Upon completion, the area was padded with an additional one (1) foot of clean topsoil then backfilled with like soils and contoured to grade.

On November 28-30, 2011 SESI was onsite with Bryan's Oilfield Service to begin backfilling the excavation.

On December 2, 2011, SESI was onsite with Bryan's Oil field Service. A total of 2,094 cu. yards of backfill material were hauled in.

VI. Conclusion

Remedial actions at this site have all been performed with the approval of, and in accordance with all NMOCD requirements. The area will be reseeded in the spring as per landowner's specifications.

As a result, we respectfully submit this closure report for your consideration and approval.

VII. Figures & Appendices

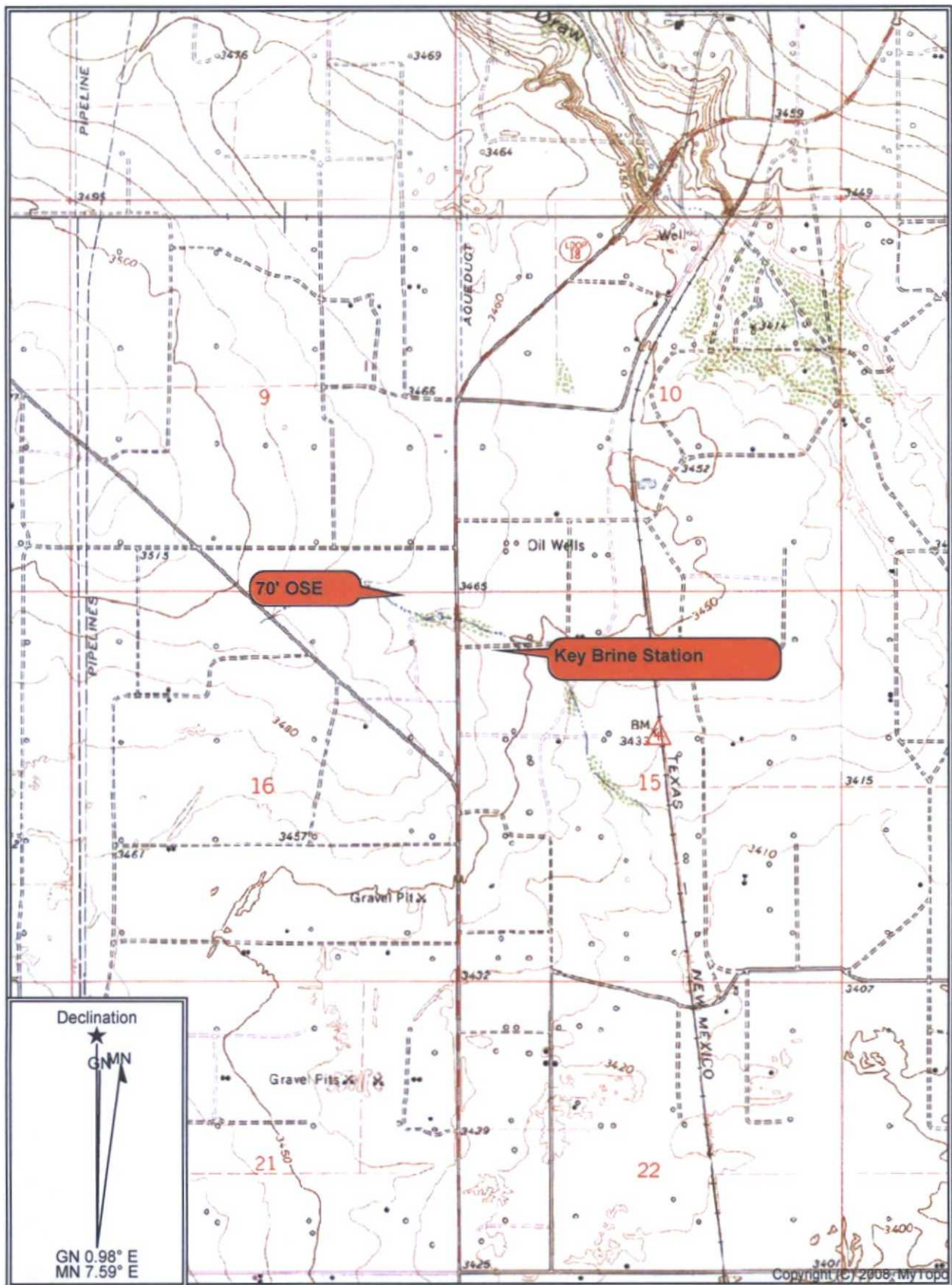
Figure 1 – Vicinity Map

Figure 2 – Site Plan

Appendix A – Analytical Results

Appendix B – Site Photographs

Figure 1
Vicinity Map



Map Name: EUNICE,
 Scale: 1 inch = 2,000 ft.
 Map Center: 032.4841035° N 103.1584952° W

Horizontal Datum: WGS84
 UTM Zone: 13
 Map Type: Topographic

Figure 2
Site Plan



Imagery Date: 11/15/2011

Lat 32.434013° Lon -103.153330° Elev 3434 ft

Eye alt 3709 ft

© 2011 Google

Google earth

Appendix A

Analytical Results

June 10, 2011

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: BRO-11-001

Enclosed are the results of analyses for samples received by the laboratory on 06/07/11 14:50.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

 Received: 06/07/2011
 Reported: 06/10/2011
 Project Name: BRO-11-001
 Project Number: KEY ENERGY BRINE STA.
 Project Location: EUNICE, NM

 Sampling Date: 06/07/2011
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: TT #1 1' BGS (H101174-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	06/08/2011	ND	448	112	400	0.00	

Sample ID: TT #1 3' BGS (H101174-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	06/08/2011	ND	448	112	400	0.00	

Sample ID: TT #1 5' BGS (H101174-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	06/08/2011	ND	448	112	400	0.00		

Sample ID: TT #2 1' BGS (H101174-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3280	16.0	06/08/2011	ND	448	112	400	0.00		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 06/07/2011
Reported: 06/10/2011
Project Name: BRO-11-001
Project Number: KEY ENERGY BRINE STA.
Project Location: EUNICE, NM

Sampling Date: 06/07/2011
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: TT #2 3' BGS (H101174-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	06/08/2011	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

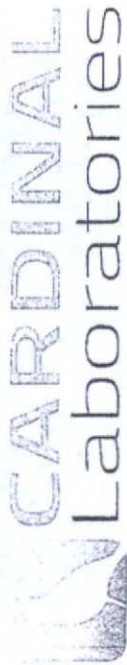
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO				ANALYSIS REQUEST														
Company Name: <u>SEEF</u>																		
Project Manager: <u>Bob Allen</u>																		
Address: <u>703 E Clinton</u>																		
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>																		
Phone #: <u>575-397-0510</u> Fax #: _____																		
Project #: <u>170-11-001</u> Project Owner: <u>Bono Service</u>																		
Project Name: <u>Key Energy Bore Station</u>																		
Project Location: <u>Unice, NM</u>																		
Sampler Name: <u>Dee Kirod</u>																		
FOR LAB USE ONLY																		
Lab I.D.	Sample I.D.	MATRIX	PRESERV	SAMPLING	DATE	TIME												
1	1701 1' bss	GROUNDWATER	OTHER	OTHER	6/17/11	0830												
2	1701 3' bss	SLUDGE	ICE / COOL	OTHER		0835												
3	1701 5' bss	SOIL	ACID/BASE			0850												
4	1702 1' bss	WASTEWATER	OTHER			0910												
5	1702 3' bss	GROUNDWATER	OTHER			0920												

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Relinquished By: _____	Date: <u>6/17/11</u>	Received By: <u>Wadi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: _____
Relinquished By: _____	Time: <u>1450</u>	Received By: _____	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: _____
REMARKS: _____				
Delivered By: (Circle One) _____				
Sampler - UPS - Bus - Other: <u>392</u>				

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

August 02, 2011

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: BRO-11-001

Enclosed are the results of analyses for samples received by the laboratory on 08/01/11 12:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

 Received: 08/01/2011
 Reported: 08/02/2011
 Project Name: BRO-11-001
 Project Number: KEY BRINE & WATER STATION
 Project Location: EUNICE, NM

 Sampling Date: 08/01/2011
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Hope S. Moreno

Sample ID: SP - 1 3' BGS (H101589-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/01/2011	ND	448	112	400	0.00	

Sample ID: SP - 2 3' BGS (H101589-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/01/2011	ND	448	112	400	0.00		

Sample ID: SP - 3 3' BGS (H101589-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	08/01/2011	ND	448	112	400	0.00		

Sample ID: SP - 4 3' BGS (H101589-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/01/2011	ND	448	112	400	0.00	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

 Received: 08/01/2011
 Reported: 08/02/2011
 Project Name: BRO-11-001
 Project Number: KEY BRINE & WATER STATION
 Project Location: EUNICE, NM

 Sampling Date: 08/01/2011
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Hope S. Moreno

Sample ID: SP - 5 3' BGS (H101589-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	08/01/2011	ND	448	112	400	0.00	

Sample ID: SP - 6 3' BGS (H101589-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/01/2011	ND	448	112	400	0.00	

Sample ID: SP - 7 3' BGS (H101589-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	08/01/2011	ND	448	112	400	0.00	

Sample ID: SP - 8 3' BGS (H101589-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	08/01/2011	ND	448	112	400	0.00	

Sample ID: SP - 9 3' BGS (H101589-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	08/01/2011	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 08/01/2011
Reported: 08/02/2011
Project Name: BRO-11-001
Project Number: KEY BRINE & WATER STATION
Project Location: EUNICE, NM

Sampling Date: 08/01/2011
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Hope S. Moreno

Sample ID: SP - 10 3' BGS (H101589-10)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/01/2011	ND	448	112	400	0.00	

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*=Accredited Analyte

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: Safety & Environmental Solutions, Inc.										BILL TO										ANALYSIS REQUEST																			
Project Manager: Bob Allen										P.O. #:																													
Address: 703 East Clinton										Company: Same																													
City: Hobbs State: NM Zip: 88240										Attn:																													
Phone #: 575-397-0510 Fax #: 575-393-4388										Address:																													
Project #: 380-11-001 Project Owner: BONCO										City:																													
Project Name: KEY BRIMBY WATER STATION										State:										Zip:																			
Project Location: CUNCE N.W.										Phone #:																													
Sampler Name: SOSZAK										Fax #:																													
FOR LAB USE ONLY										MATRIX										PRESERV										SAMPLING									
Lab I.D. Sample I.D.										GROUNDWATER										ACID/BASE										OTHER:									
										WASTEWATER										SLUDGE										OTHER:									
										OIL																													
										SLUDGE																													
										OIL																													
										WASTEWATER																													
										GROUNDWATER																													
										# CONTAINERS																													
										(C) RAB OR (COMP																													
										DATE										TIME																			
11/15/11 SP-1 3' BGS										08/01										0940																			
2 SP-2 3' BGS										08/01										0945																			
3 SP-3 3' BGS										08/01										0950																			
4 SP-4 3' BGS										08/01										0955																			
5 SP-5 3' BGS										08/01										1000																			
6 SP-6 3' BGS										08/01										1010																			
7 SP-7 3' BGS										08/01										1015																			
8 SP-8 3' BGS										08/01										1020																			
9 SP-9 3' BGS										08/01										1025																			
10 SP-10 3' BGS										08/01										1030																			
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising within 30 days of completion of the applicable analysis. At Cardinal's option, Cardinal will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.										Terms and Conditions: Cardinal will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.																													
Samples Relinquished By: <i>[Signature]</i>										Received By: <i>[Signature]</i>										Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:																			
Relinquished By: <i>[Signature]</i>										Received By: <i>[Signature]</i>										Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:																			
Delivered By: (Circle One)										Sample Condition										CHECKED BY: (Initials)																			
Sampler - UPS - Bus - Other:										Cool <input type="checkbox"/> Intact <input type="checkbox"/>										Yes <input type="checkbox"/> No <input type="checkbox"/>																			

Brought samples directly to lab. then

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

#20

August 23, 2011

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: BRO-11-001

Enclosed are the results of analyses for samples received by the laboratory on 08/22/11 8:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 08/22/2011
Reported: 08/23/2011
Project Name: BRO-11-001
Project Number: KEY WATER & BRINE STATION
Project Location: EUNICE, NM

Sampling Date: 08/19/2011
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: TT - 3 10' BGS (H101767-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/23/2011	ND	448	112	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

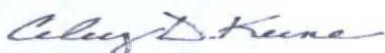
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 Fax (505) 393-2476

Page of

BILL TO										ANALYSIS REQUEST																																																											
Company Name: Safety & Environmental Solutions, Inc. Project Manager: Bob Allen Address: 703 East Clinton City: Hobbs State: NM Zip: 88240 Phone #: 575-397-0510 Fax #: 575-393-4388 Project #: 130-11-001 Project Owner: BRENNE Project Name: Key Water & Bridge Station Project Location: CUNCE NM Sampler Name: Sosa Sam										P.O. #: Company: Same Attn: Address: City: State: Zip: Phone #: Fax #:																																																											
FOR LAB USE ONLY <div style="display: flex; justify-content: space-between;"> <div> Lab I.D. H10767 </div> <div> Sample I.D. 7E-3 10' BGS </div> </div>										<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">MATRIX</th> <th>PRESERV</th> <th colspan="2">SAMPLING</th> </tr> <tr> <td>GROUNDWATER</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>WASTEWATER</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SOIL</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>OIL</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SLUDGE</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>OTHER:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ACID/BASE:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ICE/COOL</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>OTHER:</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										MATRIX		PRESERV	SAMPLING		GROUNDWATER					WASTEWATER					SOIL	X				OIL					SLUDGE					OTHER:					ACID/BASE:					ICE/COOL					OTHER:				
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PLEASE NOTE: Liability and Damages. Cardini's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other causes whatsoever shall be deemed waived unless made in writing and received by Cardini within 30 days after completion of the applicable analysis. In no event shall Cardini be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits, incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardini, regardless of whether such claim is based upon any of the above listed causes or otherwise.																																																																					
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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collection, including attorney's fees.										REMARKS: <div style="text-align: right;"> Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: </div>																																																											

September 23, 2011

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: BRO-11-001

Enclosed are the results of analyses for samples received by the laboratory on 09/22/11 13:15.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 09/22/2011
Reported: 09/23/2011
Project Name: BRO-11-001
Project Number: KEY WATER & BRINE STATION
Project Location: EUNICE, NM

Sampling Date: 09/22/2011
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: T.T. 14-15' (H102027-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/23/2011	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

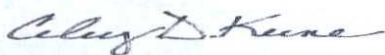
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2326 Fax (505) 393-2476

Page 1 of 1

Company Name: Safety & Environmental Solutions, Inc. Project Manager: Bob Allen Address: 703 East Clinton City: Hobbs State: NM Zip: 88240 Phone #: 575-397-0510 Fax #: 575-393-4388 Project #: BPO 11001 Project Owner: Bruner Project Name: Key West Brine Station Project Location: Esmeralda NM Sampler Name: Sergio Contreras		BILL TO P.O. #: Company: Same Address: City: State: Phone #: Fax #:		ANALYSIS REQUEST																																													
Lab I.D. H102027 -1		Sample I.D. 11-14-05		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">PRESERV.</th> <th colspan="2">SAMPLING</th> </tr> <tr> <td>ACID/BASE:</td> <td>OTHER:</td> <td>DATE</td> <td>TIME</td> </tr> <tr> <td>ICE / COOL</td> <td></td> <td>9-22-11</td> <td>10:00</td> </tr> <tr> <td>OTHER:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SLUDGE</td> <td></td> <td></td> <td></td> </tr> <tr> <td>OIL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>SOIL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>WASTEWATER</td> <td></td> <td></td> <td></td> </tr> <tr> <td>GROUNDWATER</td> <td></td> <td></td> <td></td> </tr> <tr> <td># CONTAINERS</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(G)RAB OR (C)OMP.</td> <td></td> <td></td> <td></td> </tr> </table>		PRESERV.		SAMPLING		ACID/BASE:	OTHER:	DATE	TIME	ICE / COOL		9-22-11	10:00	OTHER:				SLUDGE				OIL				SOIL				WASTEWATER				GROUNDWATER				# CONTAINERS				(G)RAB OR (C)OMP.			
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<p><small>PLEASE NOTE: Locality and Description. Customer's liability and Client's exclusive remedy for any claim arising whether tested in confidence or not, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other causes whatsoever shall be deemed waived unless made in writing and received by Carolina within 30 days after completion of the applicable analysis. In no event shall Carolina be liable for incidental or consequential damages, including about function, business, interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services performed by Carolina, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small></p>																																																	
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* Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

26

November 14, 2011

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: BRO-11-001

Enclosed are the results of analyses for samples received by the laboratory on 11/09/11 10:38.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 11/09/2011
Reported: 11/14/2011
Project Name: BRO-11-001
Project Number: BRONCO
Project Location: EUNICE, NM

Sampling Date: 11/09/2011
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: TT-1 17' BGS (H102431-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/11/2011	ND	432	108	400	7.14	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

072074

Appendix B
Site Photographs

Site Photographs: June7, 2011



Tanks facing south



Evaporator flowback release on location pad



Evandor flowback release facing southeast



Test Trench #1 5'bgs



Test Trench #1 backfilled facing east



Test Trench #2 Backfilled facing west



Test Trench #2 3'bgs

Site Photographs August 1, 2011



East of excavation facing west



Bottom Hole



Middle of excavation



Middle of excavation facing North

Site Photographs September 19, 2011



East of excavation facing northeast



East of excavation facing southeast



West of excavation facing east



West of excavation facing northeast

Site Photographs September 23, 2011



Excavating Test Trench



Bottom of test trench 17' below ground surface

Site Photographs November 23, 2011



Liner facing East



Liner facing northeast



Middle of excavation with liner

Site Photographs November 30, 2011



Backfilling area facing northwest



Backfill topsoil and caliche mix

Site Photographs December 18, 2011



Backfilled surface area facing west



Surface facing east